

Claims

1. Method for the operation of a technical system,
characterized in that
5 during a time interval of a freely selectable magnitude
operating parameters of at least part of a system are recorded
and, using artificial intelligence methods comprising at least
one method from the group {neuronal network, fuzzy logic,
combined neuro/fuzzy method, genetic algorithm}, an operating
10 mode and/or functional mode of the technical system is
determined from the temporal behavior of said operating
parameters.
2. Method according to claim 1,
15 characterized in that
the operating parameters are recorded during at least two
temporally separate time intervals, the operating parameters
recorded respectively as a dataset are compared with one
another and, using artificial intelligence methods comprising
20 using artificial intelligence methods comprising at least one
method from the group {neuronal network, fuzzy logic, combined
neuro/fuzzy method, genetic algorithm}, a prediction is
determined as to how at least some of the operating parameters
must be adjusted in order to achieve a desired operating mode
25 of the technical system.
3. Method according to claim 2,
characterized in that
in addition to the prediction, a degree of confidence is
30 determined which represents a probability that an adjustment of
the operating parameters according to the prediction will lead
to the desired operating mode.

4. Method according to any one of claims 1 to 3,
characterized in that
the operating mode of the technical system is determined using
a correlation analysis of the operating parameters, wherein the
5 impacts of changes in operating parameters which correspond to
input parameters on operating parameters which correspond to
output parameters are determined.